

## File Names

11:43 Tuesday, September 21, 2004 1

| File # | Original File Name                                     |
|--------|--|
| 1      | ENVCAN_STIFS_SIM_JRB_ORG+INORG_PARTISOL_2002_01_V1.csv |



Distributed by the Atmospheric Science Data Center  
<http://eosweb.larc.nasa.gov>



## Dataset Key Phrases

| Data Exchange Standard Version | Principal Investigator Name--last first | Principal Investigator Affiliation                      | File Contents Description--short long                | Sampling Interval As Reported in Main Table |
|--------------------------------|---|---|--|---|
| NARSTO 2002/05/28 (2.301)      | Brook ; Jeffrey                         | Environment Canada,<br>Meteorological Service of Canada | ORG+INORG ; Water soluble<br>organics and inorganics | 8 h day/16 h night                          |



Distributed by the Atmospheric Science Data Center  
<http://eosweb.larc.nasa.gov>



## Dataset Key Phrases

| <b>Sampling Frequency Of Data in Main Table</b> | <b>Quality Control Level</b> | <b>Organization Acronym</b> | <b>Organization Name</b>                             | <b>Data Usage Acknowledgement</b>  | <b>Study Or Network Acronym</b> |
|---|------------------------------|-----------------------------|--|--|---------------------------------|
| 2 times per day                                 | 1                            | ENVCAN_MSC                  | Environment Canada--Meteorological Service of Canada | Environment Canada,<br>Meteorological Service of Canada, 4905 Dufferin St.,<br>Toronto, Ont. M3H 5T4 | ENVCAN_STIFS                    |



Distributed by the Atmospheric Science Data Center  
<http://eosweb.larc.nasa.gov>



## Dataset Key Phrases

| Study Or Network Name   | Country Code | State Or Province Code | Principal Investigator Contact Information   | Co-investigator Name--last first | Co-investigator Affiliation |
|---|--------------|------------------------|--|----------------------------------|-----------------------------|
| Environment Canada--Supersite Transboundary Intensive Field Study | CA           | ON                     | Environment Canada, Meteorological Service of Canada, 4905 Dufferin St., Toronto, Ont. M3H 5T4 | None ; None                      | None                        |



Distributed by the Atmospheric Science Data Center  
<http://eosweb.larc.nasa.gov>



## Dataset Key Phrases

5

| Name And Affiliation Of Person Who Generated This File | Date Of Last Modification To Data In Main Table | Name And Version Of Software Used To Create This File |
|--|---|---|
| Greg Skelton, SKELTON TECHNICAL SERVICES INC           | 2003/05/01                                      | MS Excel/2002   |



Distributed by the Atmospheric Science Data Center  
<http://eosweb.larc.nasa.gov>



## Dataset Key Phrases

| Companion File Name<br>format And Version | Date This File Generated<br>archive Version Number | Table Explanation Of Zero Or Negative Values  |
|---|--|---|
| None ; 0                                  | 2004/07/20 ; 1                                     | Blank corrections are performed after samples are compared to the DL and flagged accordingly. Only the variables that have a mean blank concentration that is >5% of the mean air concentration (in units of ug/filter) are corrected by subtracting the mean blank concentration (in ug/filter). In some cases this results in final concentrations in ug/m^3 that are negative or less than the stated detection limit (in ug/m^3). Such samples are not flagged as BDL because on a ug/filter basis before blank correction they were above the detection limit. The user may also choose to classify this samples as BDL. |



## Dataset Key Phrases

7

| Table Explanation Of Reported Detection Limit Values  | Table Explanation Of Reported Uncertainty | Table User Note | Table User Note2 | Table User Note3 | Table User Note4 |
|---|---|-----------------|------------------|------------------|------------------|
| Detection limits (DL) are based upon 3*SD of field blanks in ug/filter. Non blank-corrected laboratory analysis results in ug/filter for each sample are compared to this DL to determine if the sample is BDL and then flagged accordingly (V1 means BDL). | no uncertainty reported                   | None            | None             |                  |                  |



## Dataset Key Phrases

8

| Table Name | Table Focus    |
|------------|----------------|
| ORG+INORG  | Surface--fixed |



Distributed by the Atmospheric Science Data Center  
<http://eosweb.larc.nasa.gov>



## Site Information

| Site ID      | Name   | State Province code | Latitude: decimal degree | Longitude: decimal degree | Sampling height above ground (m) | Ground elevation above sea level (m) | Site land use |
|--------------|--------|---------------------|--------------------------|---------------------------|----------------------------------|--------------------------------------|---------------|
| STIFCAONSIM_ | Simcoe | ON                  | 42.85000                 | -80.26667                 | 1.5                              | 236.0                                | Agricultural  |

| Site ID      | Site location setting | Measurement start date | Measurement end date | Co-incident measurements | Study site ID | Lat ion accuracy |
|--------------|-----------------------|------------------------|----------------------|--------------------------|---------------|------------------|
| STIFCAONSIM_ | Rural                 | 2002/01/02             | 2002/01/22           | None                     |               | .                |



## NARSTO Standard Flags

| <b>Flag: NARSTO</b> | <b>Description</b>  |
|---------------------|---|
| H1                  | Historical data that have not been assessed or validated  |
| M1                  | Missing value because no value is available   |
| M2                  | Missing value because invalidated by data originator  |
|                     | Missing value because invalidated by Data Originator  |
|                     | Missing value because invalidated by data originator  |
| V0                  | Valid value   |
| V1                  | Valid value but comprised wholly or partially of below detection limit data   |
| V2                  | Valid estimated value   |
| V3                  | Valid interpolated value  |
| V4                  | Valid value despite failing to meet some QC or statistical criteria   |
| V5                  | Valid value but qualified because of possible contamination (e.g., pollution source, laboratory contamination source) |
| V6                  | Valid value but qualified due to non-standard sampling conditions   |
|                     | Valid value but qualified due to non-standard sampling conditions (e.g., instrument malfunction, sample handling)     |
|                     | Valid value but qualified due to non-standard sampling conditions   |
| V7                  | Valid value but set equal to the detection limit (DL) because the measured value was below the DL                     |

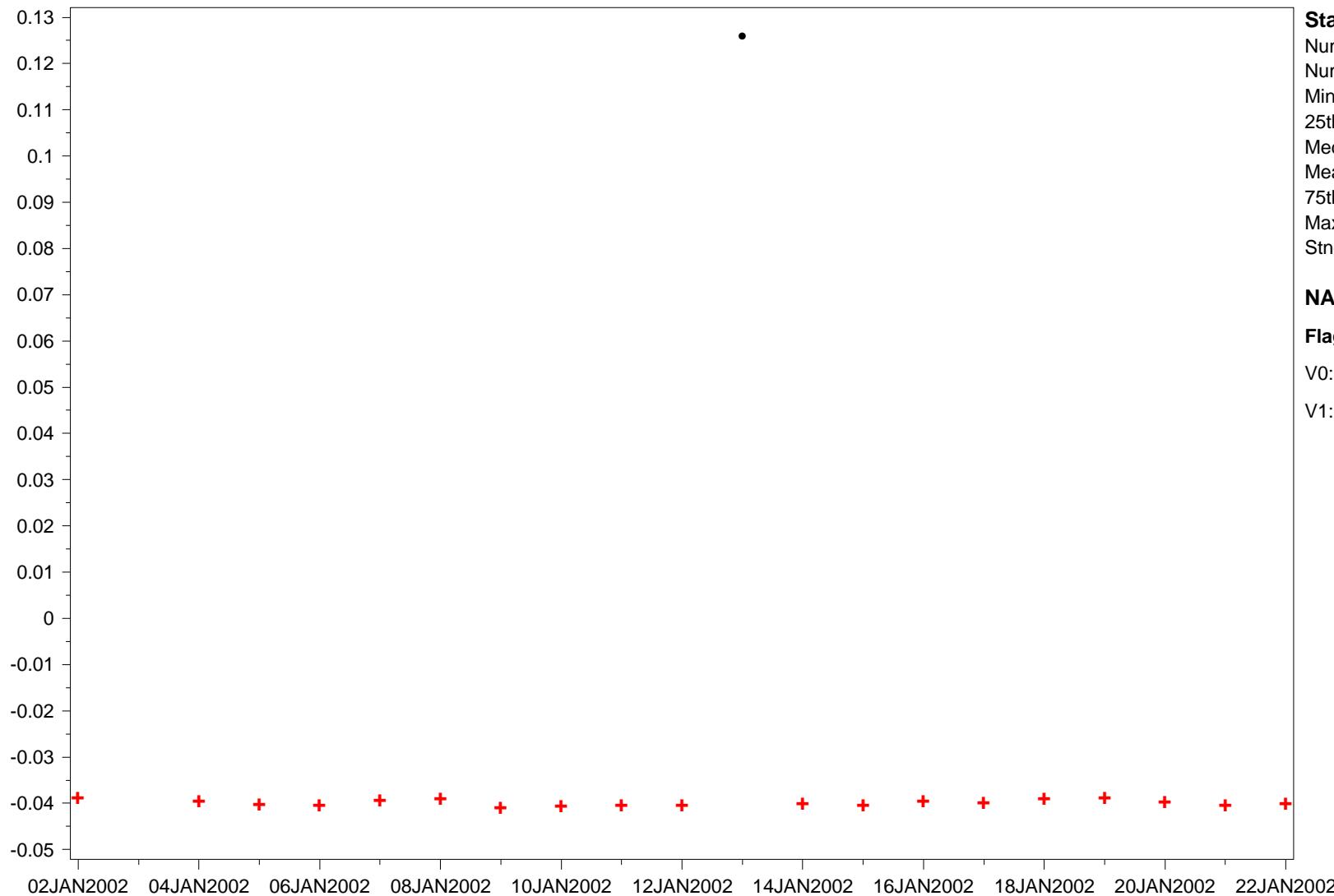


## NAtChem Time Series Plot

21SEP2004

Site ID: **STIFCAONSIM**\_ Variable name: **Acetic acid, ion(1-)** Common Name: **Acetate** Units: **ug/m<sup>3</sup>** Sampling interval: **8 h day/16 h night**  
 Sampling frequency: **2 times per day** CAS ID: **C71-50-1** Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined**  
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Teflon**  
 Inlet type: **Impactor--virtual/concentrator** Laboratory analytical method: **IC** Sample preparation: **Water extraction**  
 Blank Correction: **Blank corrected** Volume standardization: **25 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**  
 Instrument name and model number: **Rupprecht and Patashnik Partisol-Plus 2025D** Measurement principal investigator: **Jeffrey Brook**  
 Detection Limit: **Varies--see Detection lim**

Site Name: **Simcoe, Ontario** Latitude: **42.85 deg.** Longitude: **-80.26667 deg.** Start Date: **2002-01-02** End Date: **2002-01-22**

Acetic acid, ion(1-) (ug/m<sup>3</sup>)**Statistics**

Number of obs: **20**  
 Number of missing: **0**  
 Minimum: **-0.041**  
 25th Percentile: **-0.0403**  
 Median: **-0.03995**  
 Mean: **-0.032**  
 75th Percentile: **-0.0392**  
 Maximum: **0.126**  
 Stnd Dev.: **0.037**

**NARSTO Flags****Flag Symbol Count**

V0: ● 1  
 V1: + 19

Time Zone: EST

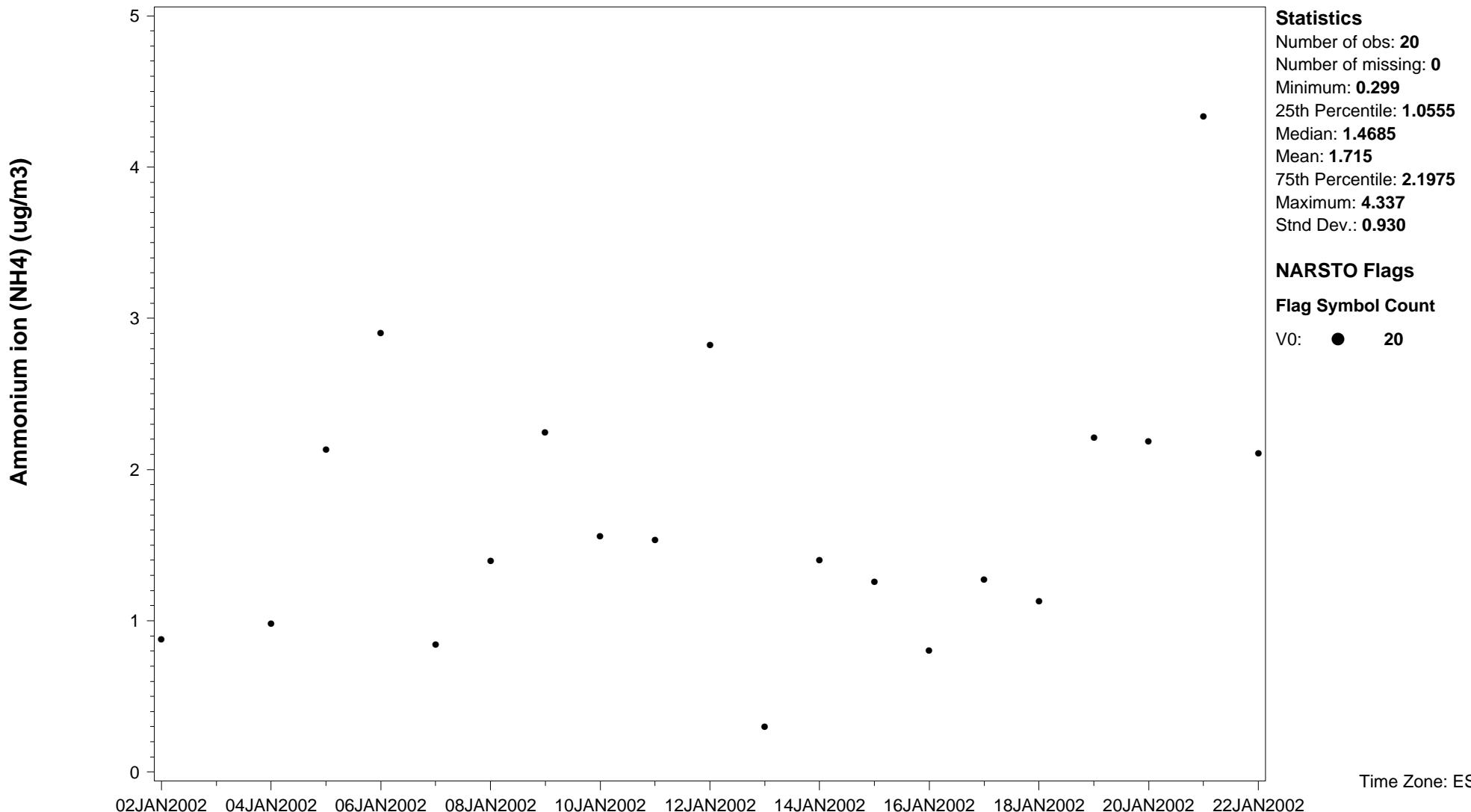


## NAtChem Time Series Plot

21SEP2004

Site ID: **STIFCAONSIM\_** Variable name: **Ammonium ion (NH4)** Common Name: **NH4+** Units: **ug/m3** Sampling interval: **8 h day/16 h night**  
 Sampling frequency: **2 times per day** CAS ID: **C14798-03-9** Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined**  
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Teflon**  
 Inlet type: **Impactor--virtual/concentrator** Laboratory analytical method: **IC** Sample preparation: **Water extraction**  
 Blank Correction: **Blank corrected** Volume standardization: **25 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**  
 Instrument name and model number: **Rupprecht and Patashnik Partisol-Plus 2025D** Measurement principal investigator: **Jeffrey Brook**  
 Detection Limit: **Varies--see Detection lim**

Site Name: **Simcoe, Ontario** Latitude: **42.85 deg.** Longitude: **-80.26667 deg.** Start Date: **2002-01-02** End Date: **2002-01-22**

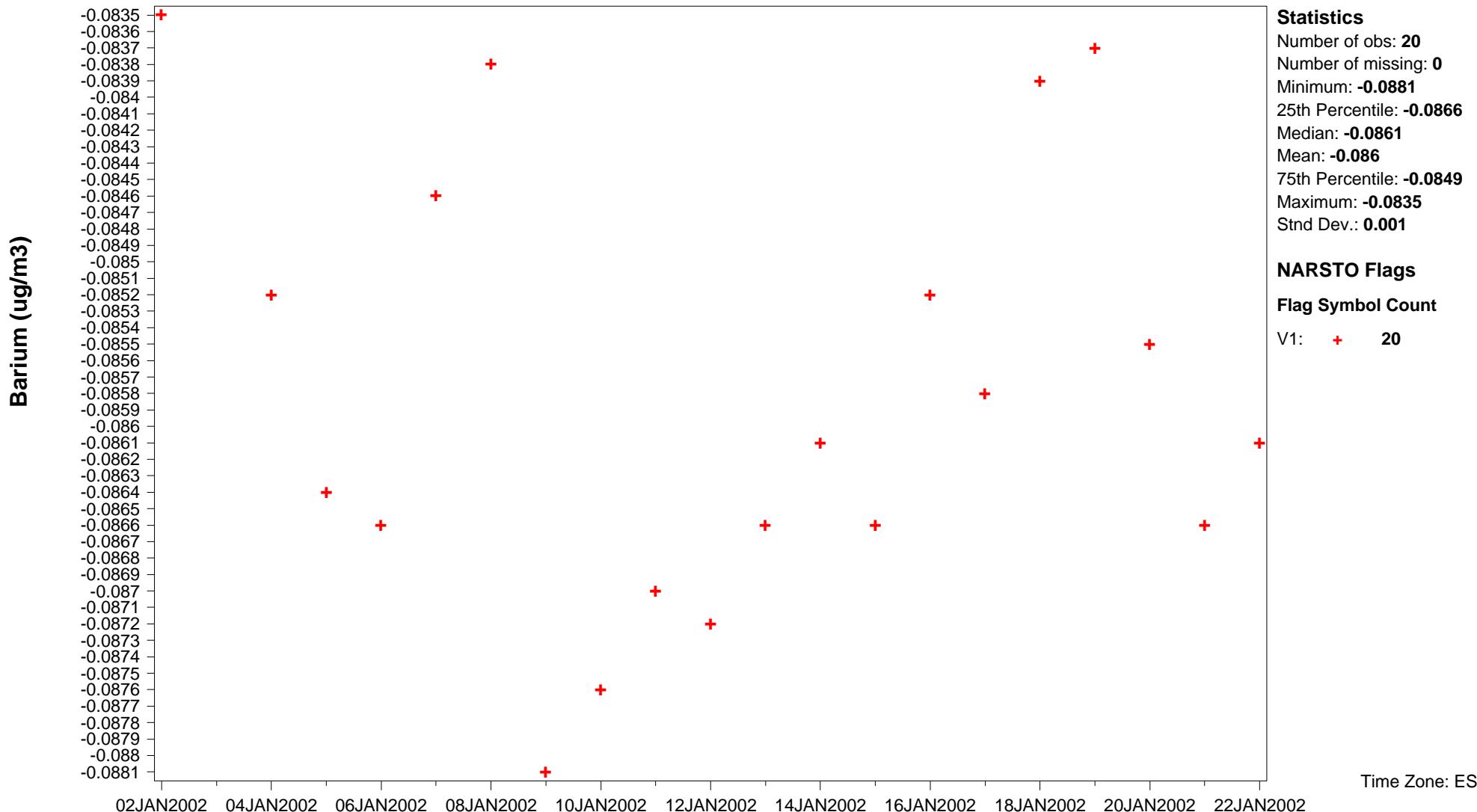


## NAtChem Time Series Plot

21SEP2004

Site ID: **STIFCAONSIM** Variable name: **Barium** Units: **ug/m3** Sampling interval: **8 h day/16 h night** Sampling frequency: **2 times per day**  
 CAS ID: **C7440-39-3** Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**  
 Field sampling or measurement principle: **Single filter** Medium: **Teflon** Inlet type: **Impactor--virtual/concentrator**  
 Laboratory analytical method: **IC** Sample preparation: **Water extraction** Blank Correction: **Blank corrected**  
 Volume standardization: **25 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**  
 Instrument name and model number: **Rupprecht and Patashnik Partisol-Plus 2025D** Measurement principal investigator: **Jeffrey Brook**  
 Detection Limit: **Varies--see Detection lim**

Site Name: **Simcoe, Ontario** Latitude: **42.85 deg.** Longitude: **-80.26667 deg.** Start Date: **2002-01-02** End Date: **2002-01-22**

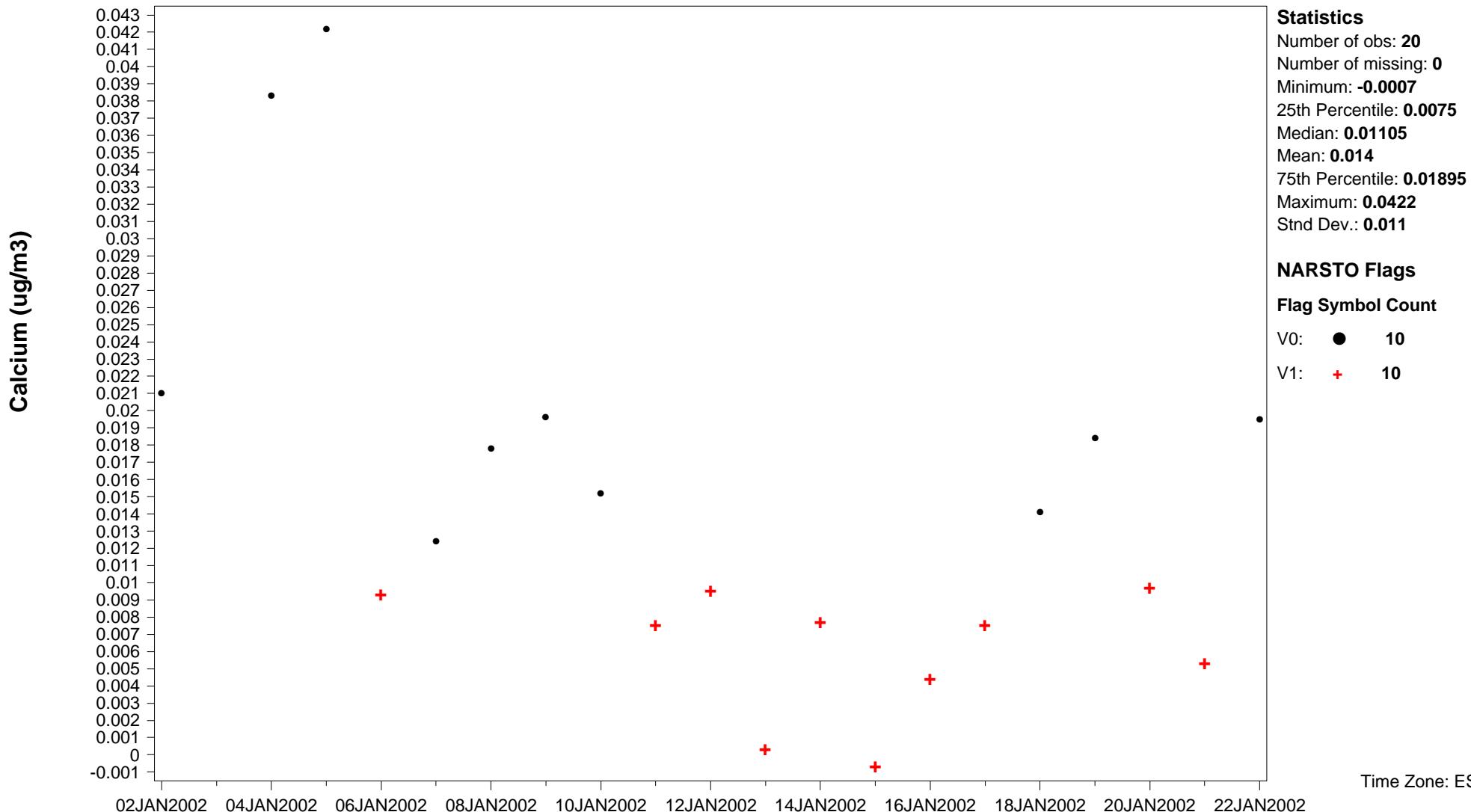


## NAtChem Time Series Plot

21SEP2004

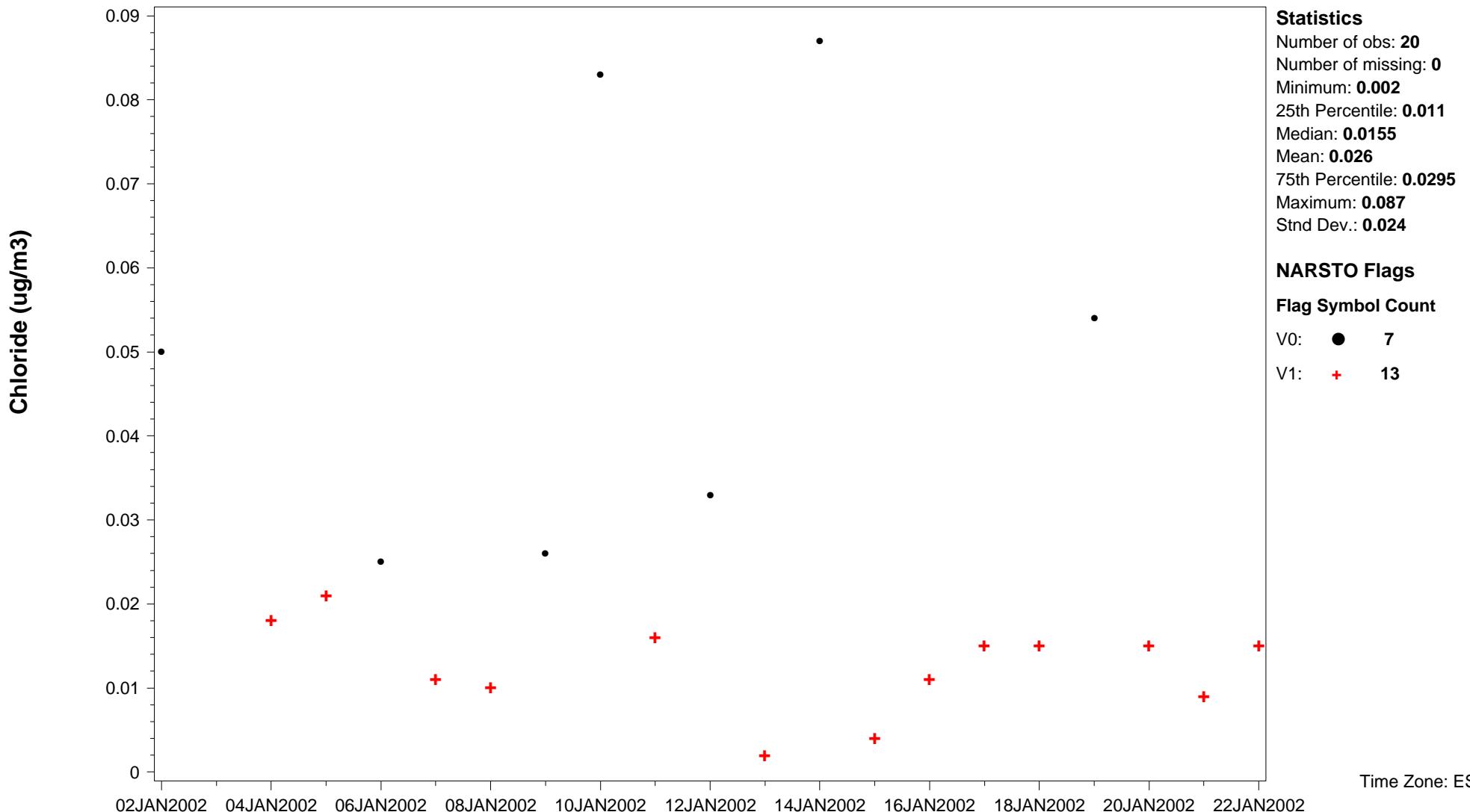
Site ID: **STIFCAONSIM**\_ Variable name: **Calcium** Units: **ug/m3** Sampling interval: **8 h day/16 h night** Sampling frequency: **2 times per day**  
 CAS ID: **C7440-70-2** Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**  
 Field sampling or measurement principle: **Single filter** Medium: **Teflon** Inlet type: **Impactor--virtual/concentrator**  
 Laboratory analytical method: **IC** Sample preparation: **Water extraction** Blank Correction: **Blank corrected**  
 Volume standardization: **25 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**  
 Instrument name and model number: **Rupprecht and Patashnik Partisol-Plus 2025D** Measurement principal investigator: **Jeffrey Brook**  
 Detection Limit: **Varies--see Detection lim**

Site Name:**Simcoe, Ontario** Latitude:**42.85 deg.** Longitude:**-80.26667 deg.** Start Date:**2002-01-02** End Date:**2002-01-22**



Site ID: **STIFCAONSIM\_** Variable name: **Chloride** Units: **ug/m3** Sampling interval: **8 h day/16 h night** Sampling frequency: **2 times per day**  
 CAS ID: **C16887-00-6** Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**  
 Field sampling or measurement principle: **Single filter** Medium: **Teflon** Inlet type: **Impactor--virtual/concentrator**  
 Laboratory analytical method: **IC** Sample preparation: **Water extraction** Blank Correction: **Blank corrected**  
 Volume standardization: **25 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**  
 Instrument name and model number: **Rupprecht and Patashnik Partisol-Plus 2025D** Measurement principal investigator: **Jeffrey Brook**  
 Detection Limit: **Varies--see Detection lim**

Site Name: **Simcoe, Ontario** Latitude: **42.85 deg.** Longitude: **-80.26667 deg.** Start Date: **2002-01-02** End Date: **2002-01-22**

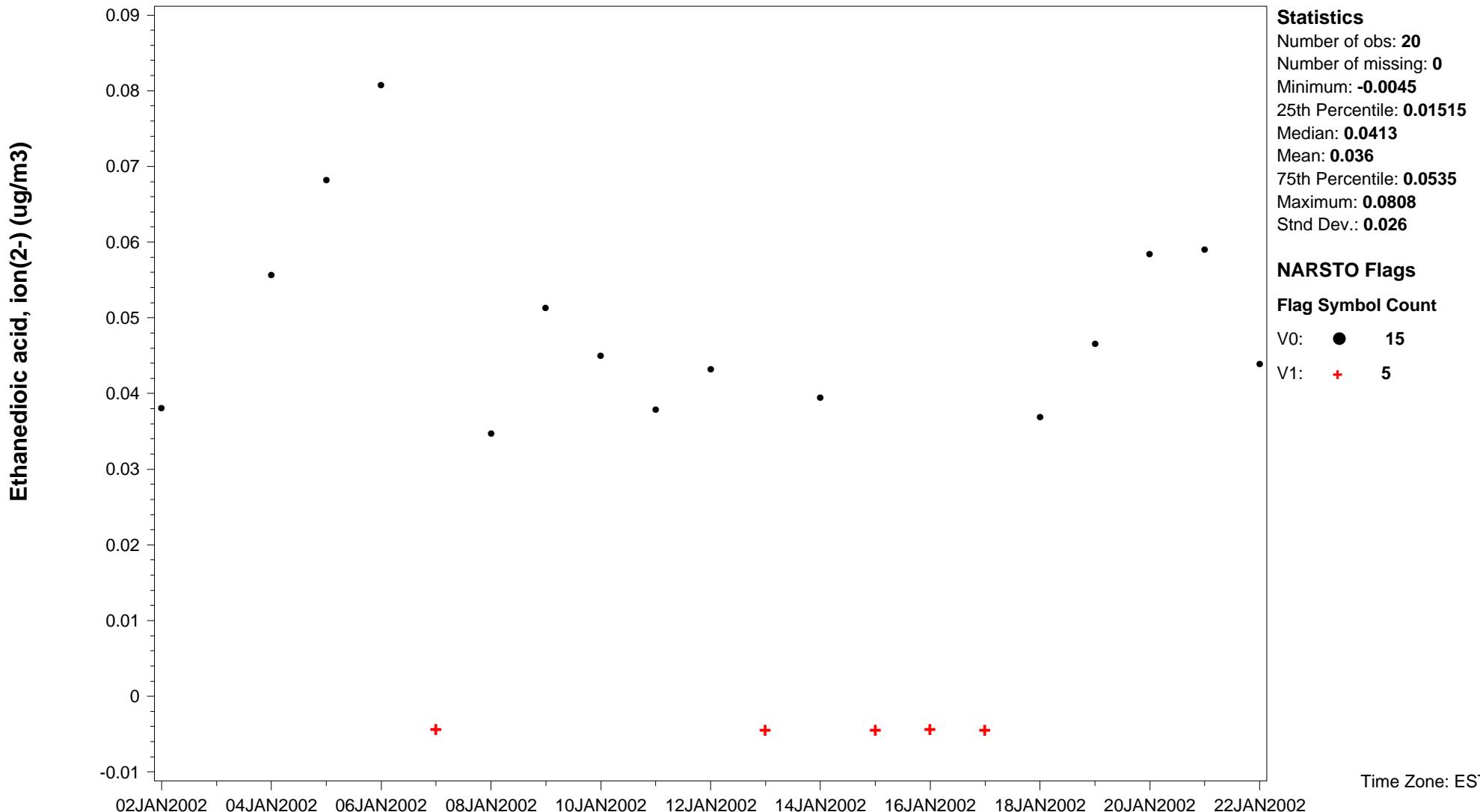


## NAtChem Time Series Plot

21SEP2004

Site ID: **STIFCAONSIM**\_ Variable name: **Ethanedioic acid, ion(2-)** Common Name: **Oxalic acid, ion** Units: **ug/m<sup>3</sup>** Sampling interval: **8 h day/16 h night**  
 Sampling frequency: **2 times per day** CAS ID: **C338-70-5** Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined**  
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Teflon**  
 Inlet type: **Impactor--virtual/concentrator** Laboratory analytical method: **IC** Sample preparation: **Water extraction**  
 Blank Correction: **Blank corrected** Volume standardization: **25 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**  
 Instrument name and model number: **Rupprecht and Patashnik Partisol-Plus 2025D** Measurement principal investigator: **Jeffrey Brook**  
 Detection Limit: **Varies--see Detection lim**

Site Name: **Simcoe, Ontario** Latitude: **42.85 deg.** Longitude: **-80.26667 deg.** Start Date: **2002-01-02** End Date: **2002-01-22**

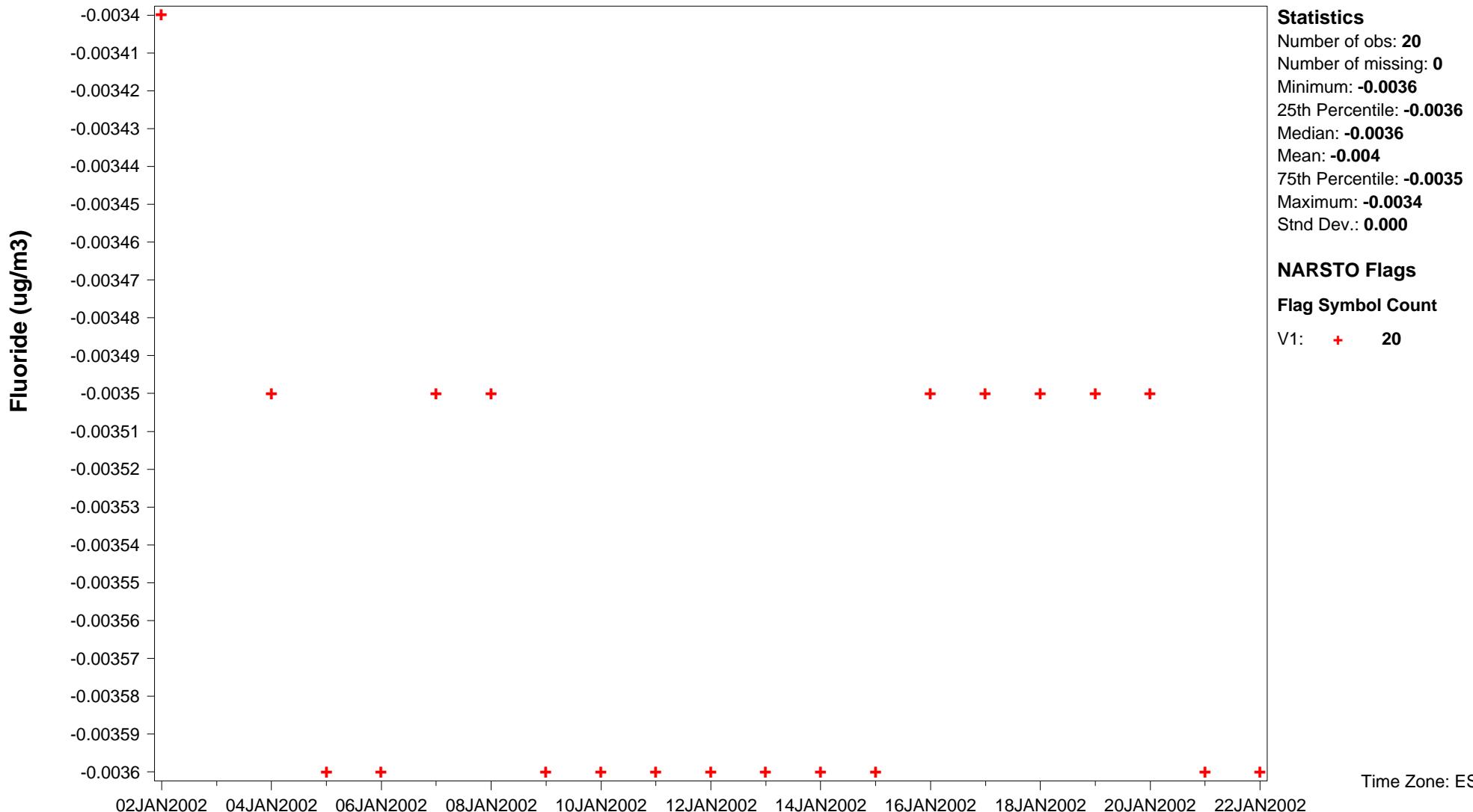


## NAtChem Time Series Plot

21SEP2004

Site ID: **STIFCAONSIM**\_ Variable name: **Fluoride** Common Name: **F-** Units: **ug/m3** Sampling interval: **8 h day/16 h night**  
 Sampling frequency: **2 times per day** CAS ID: **C16984-48-8** Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined**  
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Teflon**  
 Inlet type: **Impactor--virtual/concentrator** Laboratory analytical method: **IC** Sample preparation: **Water extraction**  
 Blank Correction: **Blank corrected** Volume standardization: **25 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**  
 Instrument name and model number: **Rupprecht and Patashnik Partisol-Plus 2025D** Measurement principal investigator: **Jeffrey Brook**  
 Detection Limit: **Varies--see Detection lim**

Site Name:**Simcoe, Ontario** Latitude:**42.85 deg.** Longitude:**-80.26667 deg.** Start Date:**2002-01-02** End Date:**2002-01-22**

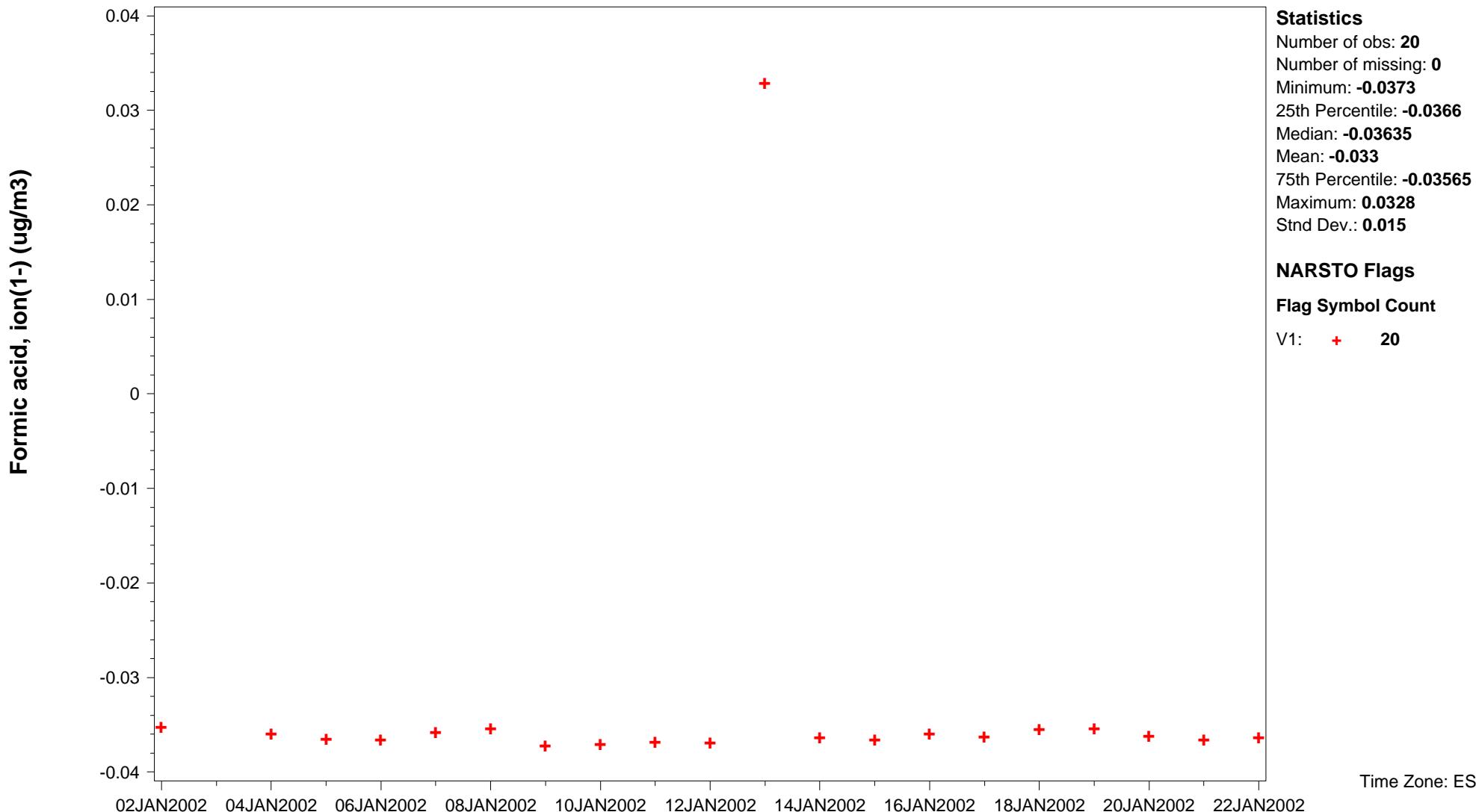


## NAtChem Time Series Plot

21SEP2004

Site ID: **STIFCAONSIM**\_ Variable name: **Formic acid, ion(1-)** Common Name: **Formate** Units: **ug/m3** Sampling interval: **8 h day/16 h night**  
 Sampling frequency: **2 times per day** CAS ID: **C71-47-6** Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined**  
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Teflon**  
 Inlet type: **Impactor--virtual/concentrator** Laboratory analytical method: **IC** Sample preparation: **Water extraction**  
 Blank Correction: **Blank corrected** Volume standardization: **25 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**  
 Instrument name and model number: **Rupprecht and Patashnik Partisol-Plus 2025D** Measurement principal investigator: **Jeffrey Brook**  
 Detection Limit: **Varies--see Detection lim**

Site Name: **Simcoe, Ontario** Latitude: **42.85 deg.** Longitude: **-80.26667 deg.** Start Date: **2002-01-02** End Date: **2002-01-22**

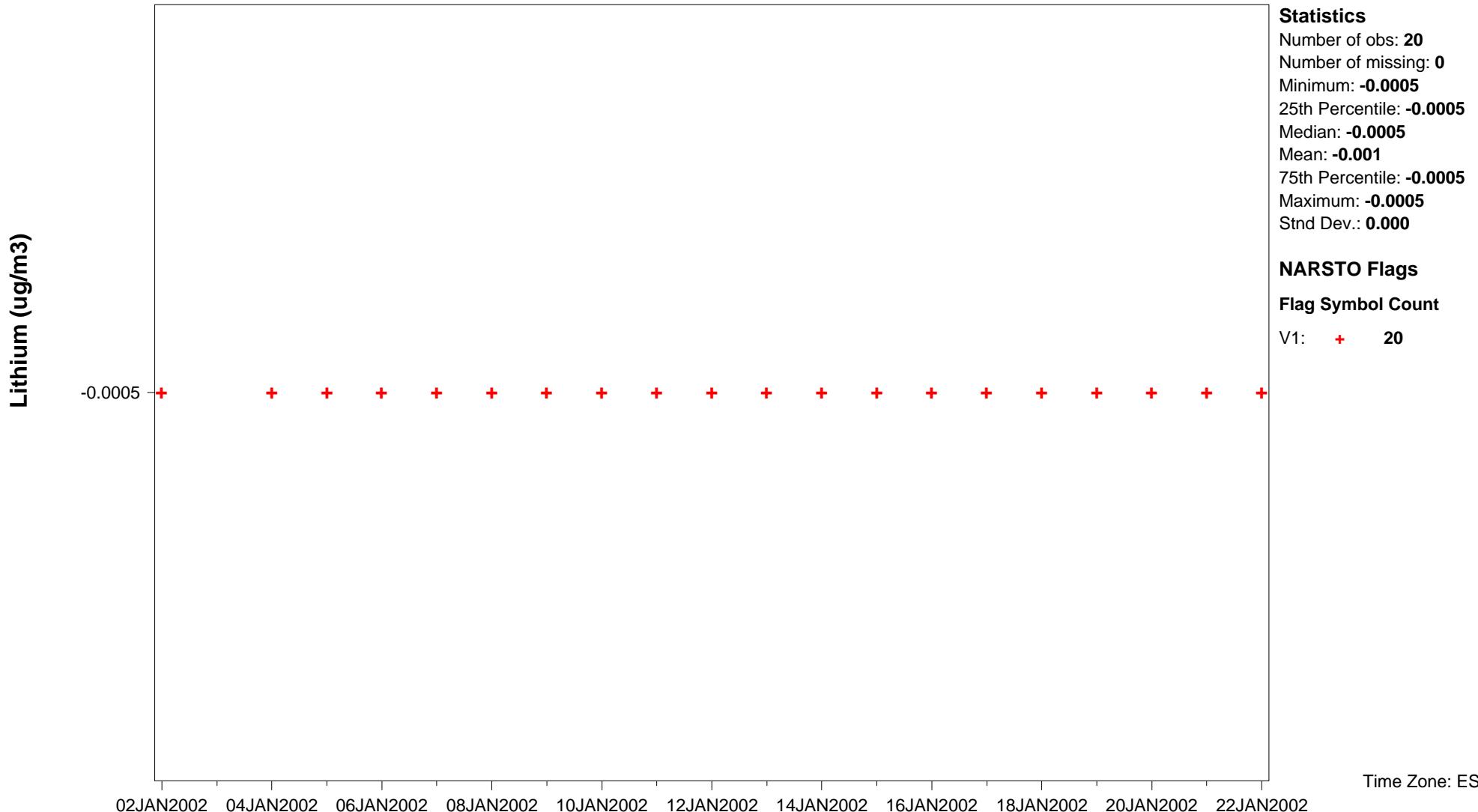


## NAtChem Time Series Plot

21SEP2004

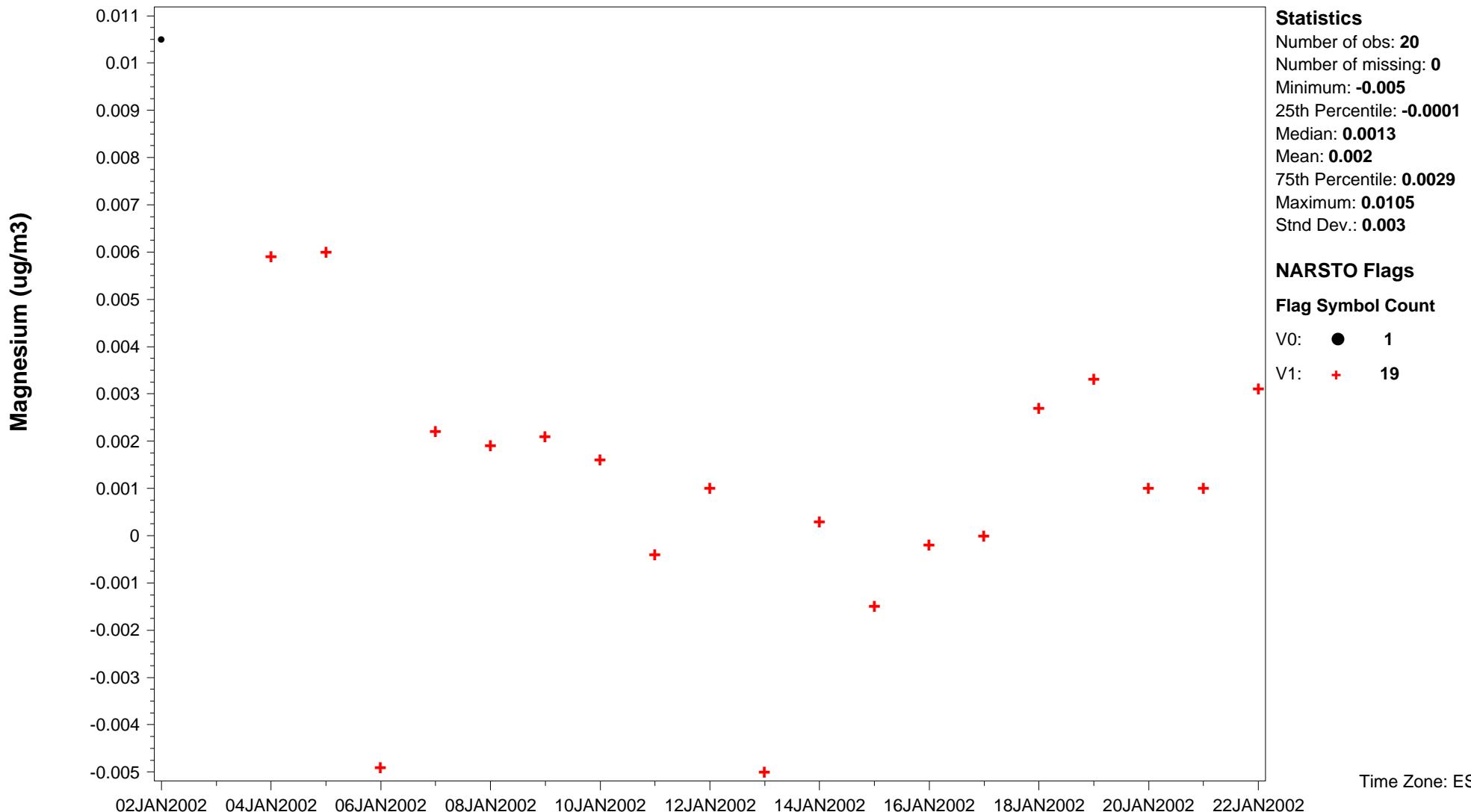
Site ID: **STIFCAONSIM\_** Variable name: **Lithium** Units: **ug/m3** Sampling interval: **8 h day/16 h night** Sampling frequency: **2 times per day**  
CAS ID: **C7439-93-2** Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**  
Field sampling or measurement principle: **Single filter** Medium: **Teflon** Inlet type: **Impactor--virtual/concentrator**  
Laboratory analytical method: **IC** Sample preparation: **Water extraction** Blank Correction: **Blank corrected**  
Volume standardization: **25 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**  
Instrument name and model number: **Rupprecht and Patashnik Partisol-Plus 2025D** Measurement principal investigator: **Jeffrey Brook**  
Detection Limit: **Varies--see Detection lim**

Site Name:**Simcoe, Ontario** Latitude:**42.85 deg.** Longitude:**-80.26667 deg.** Start Date:**2002-01-02** End Date:**2002-01-22**



Site ID: **STIFCAONSIM**\_ Variable name: **Magnesium** Units: **ug/m3** Sampling interval: **8 h day/16 h night** Sampling frequency: **2 times per day**  
 CAS ID: **C7439-95-4** Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**  
 Field sampling or measurement principle: **Single filter** Medium: **Teflon** Inlet type: **Impactor--virtual/concentrator**  
 Laboratory analytical method: **IC** Sample preparation: **Water extraction** Blank Correction: **Blank corrected**  
 Volume standardization: **25 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**  
 Instrument name and model number: **Rupprecht and Patashnik Partisol-Plus 2025D** Measurement principal investigator: **Jeffrey Brook**  
 Detection Limit: **Varies--see Detection lim**

Site Name:**Simcoe, Ontario** Latitude:**42.85 deg.** Longitude:**-80.26667 deg.** Start Date:**2002-01-02** End Date:**2002-01-22**

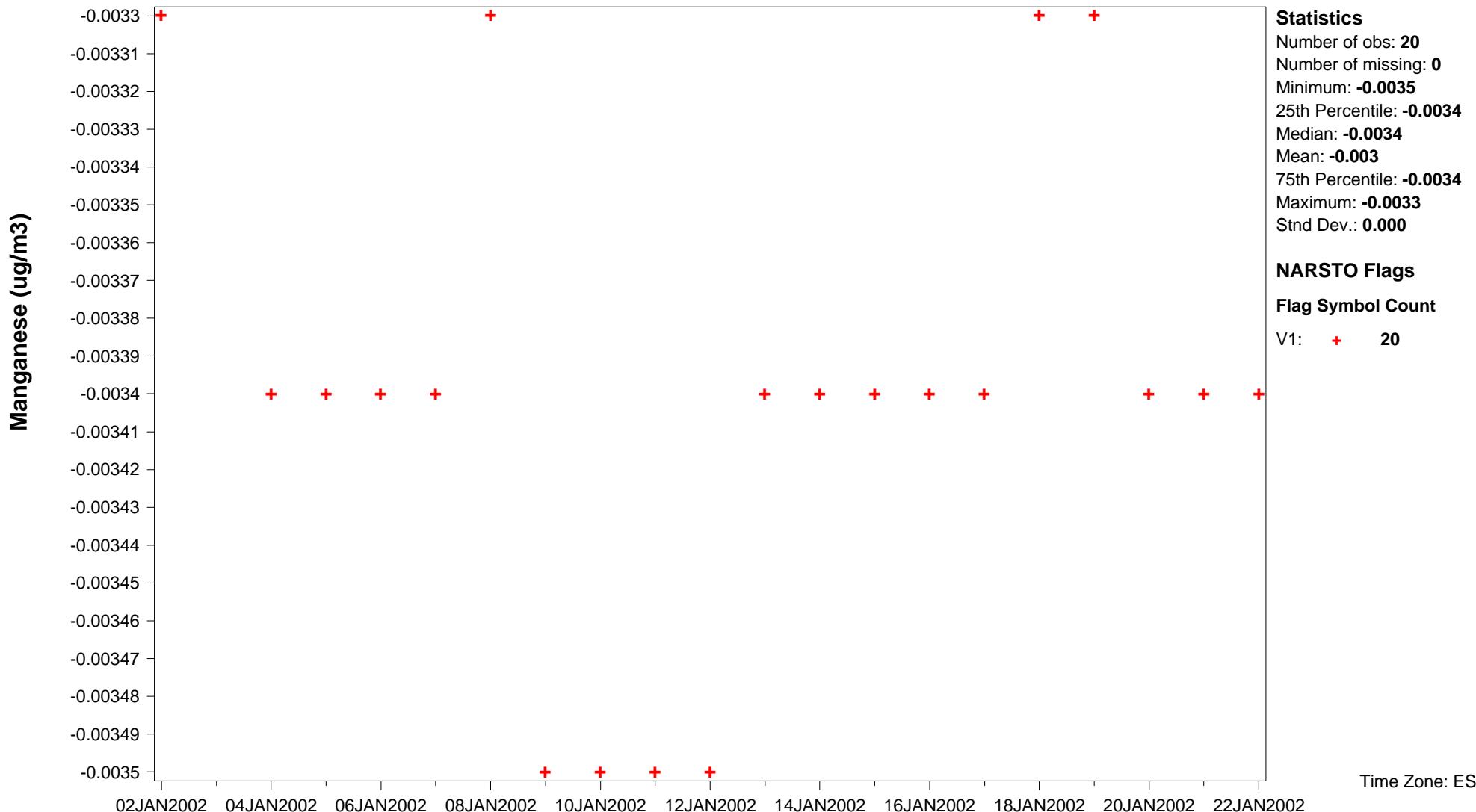


## NAtChem Time Series Plot

21SEP2004

Site ID: **STIFCAONSIM**\_ Variable name: **Manganese** Units: **ug/m3** Sampling interval: **8 h day/16 h night** Sampling frequency: **2 times per day**  
 CAS ID: **C7439-96-5** Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**  
 Field sampling or measurement principle: **Single filter** Medium: **Teflon** Inlet type: **Impactor--virtual/concentrator**  
 Laboratory analytical method: **IC** Sample preparation: **Water extraction** Blank Correction: **Blank corrected**  
 Volume standardization: **25 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**  
 Instrument name and model number: **Rupprecht and Patashnik Partisol-Plus 2025D** Measurement principal investigator: **Jeffrey Brook**  
 Detection Limit: **Varies--see Detection lim**

Site Name:**Simcoe, Ontario** Latitude:**42.85 deg.** Longitude:**-80.26667 deg.** Start Date:**2002-01-02** End Date:**2002-01-22**

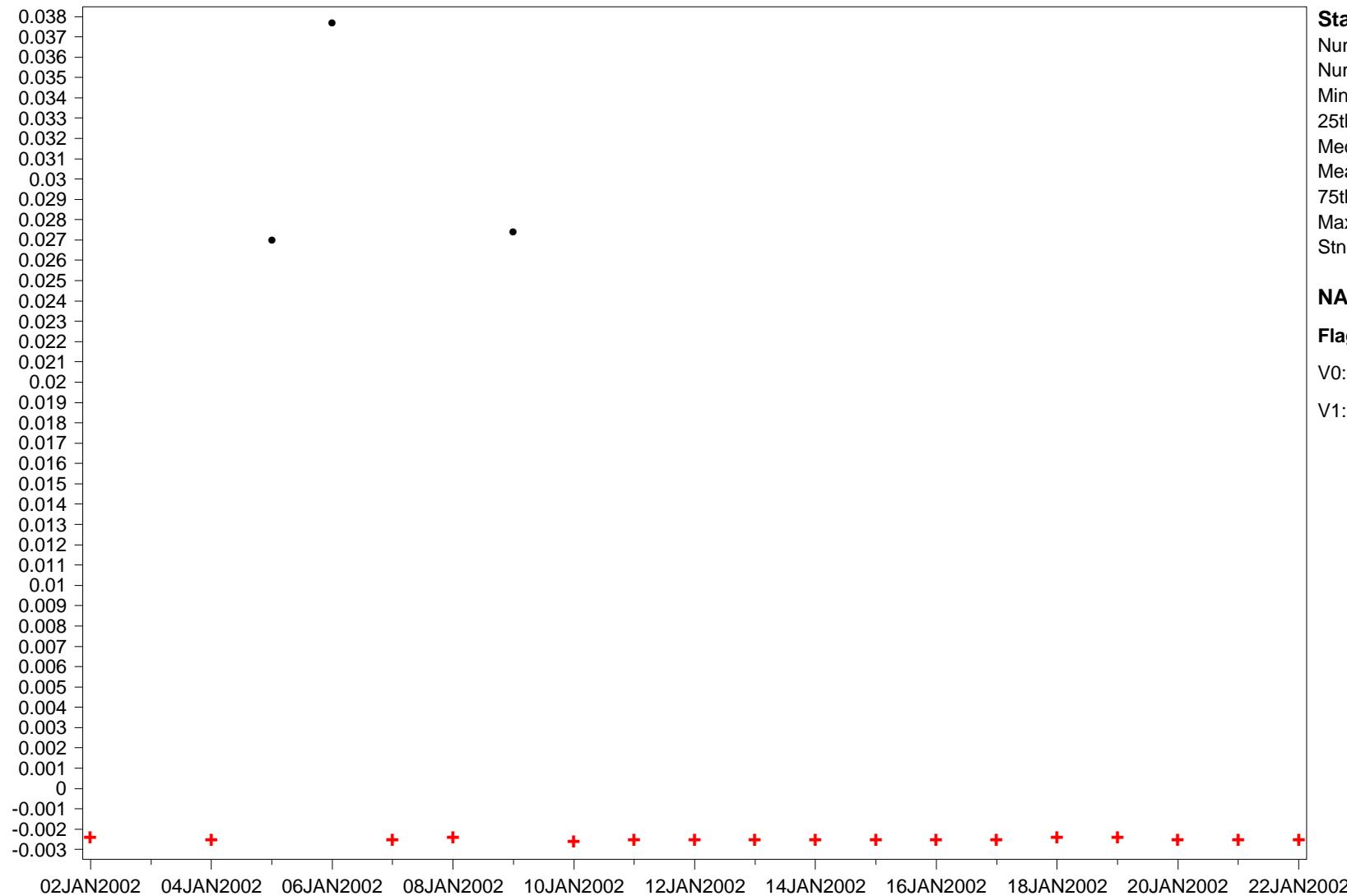


## NAtChem Time Series Plot

21SEP2004

Site ID: **STIFCAONSIM**\_ Variable name: **Methanesulfonic acid, ion(1-)** Common Name: **MSA** Units: **ug/m<sup>3</sup>** Sampling interval: **8 h day/16 h night**  
 Sampling frequency: **2 times per day** CAS ID: **C16053-58-0** Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined**  
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Teflon**  
 Inlet type: **Impactor--virtual/concentrator** Laboratory analytical method: **IC** Sample preparation: **Water extraction**  
 Blank Correction: **Blank corrected** Volume standardization: **25 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**  
 Instrument name and model number: **Rupprecht and Patashnik Partisol-Plus 2025D** Measurement principal investigator: **Jeffrey Brook**  
 Detection Limit: **Varies--see Detection lim**

Site Name: **Simcoe, Ontario** Latitude: **42.85 deg.** Longitude: **-80.26667 deg.** Start Date: **2002-01-02** End Date: **2002-01-22**

Methanesulfonic acid, ion(1-) (ug/m<sup>3</sup>)**Statistics**

Number of obs: **20**  
 Number of missing: **0**  
 Minimum: **-0.0026**  
 25th Percentile: **-0.0025**  
 Median: **-0.0025**  
 Mean: **0.002**  
 75th Percentile: **-0.0024**  
 Maximum: **0.0377**  
 Stnd Dev.: **0.012**

**NARSTO Flags****Flag Symbol Count**

V0: ● 3  
 V1: + 17

Time Zone: EST

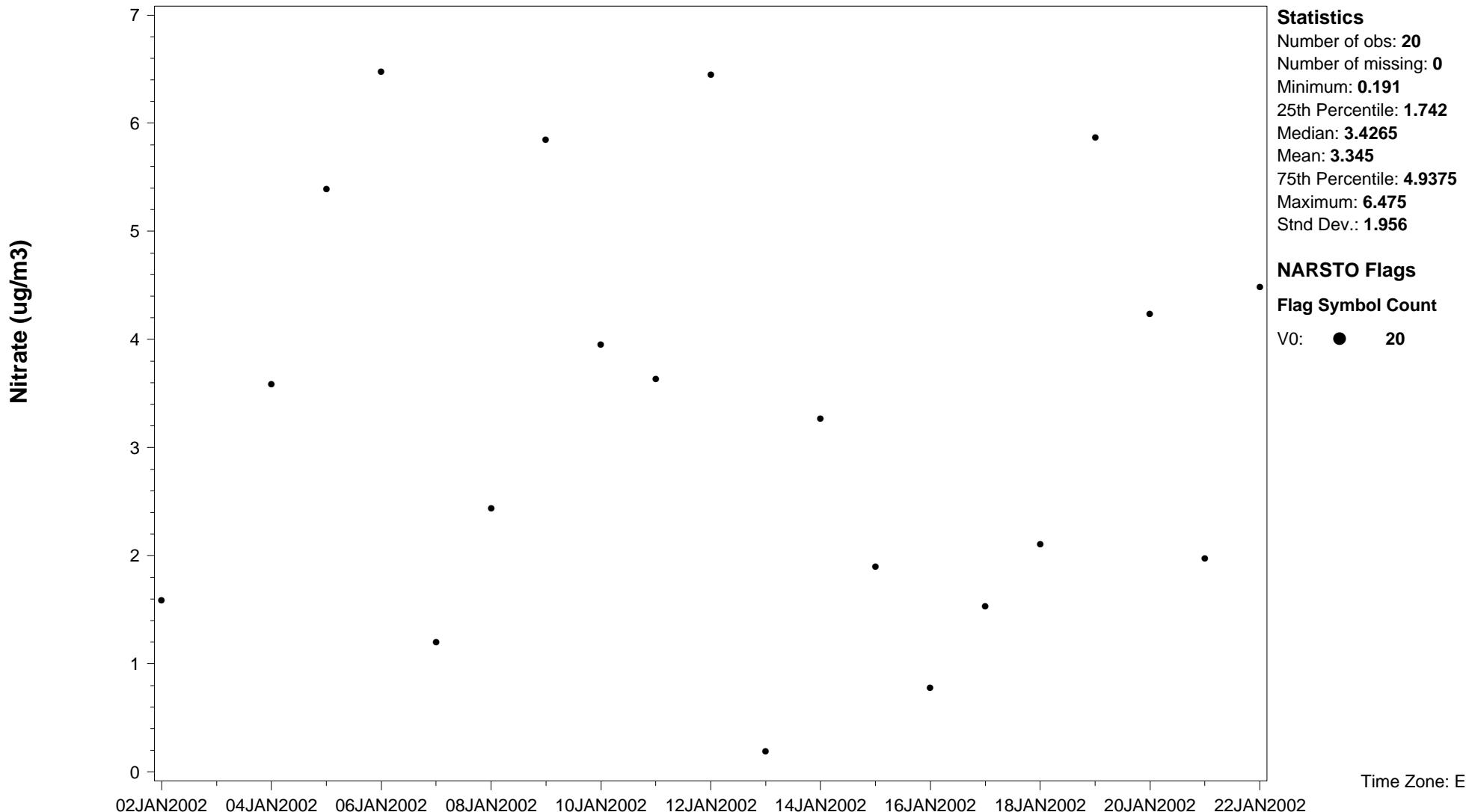


## NAtChem Time Series Plot

21SEP2004

Site ID: **STIFCAONSIM\_** Variable name: **Nitrate** Units: **ug/m3** Sampling interval: **8 h day/16 h night** Sampling frequency: **2 times per day**  
 CAS ID: **C14797-55-8** Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**  
 Field sampling or measurement principle: **Single filter** Medium: **Teflon** Inlet type: **Impactor--virtual/concentrator**  
 Laboratory analytical method: **IC** Sample preparation: **Water extraction** Blank Correction: **Blank corrected**  
 Volume standardization: **25 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**  
 Instrument name and model number: **Rupprecht and Patashnik Partisol-Plus 2025D** Measurement principal investigator: **Jeffrey Brook**  
 Detection Limit: **Varies--see Detection lim**

Site Name: **Simcoe, Ontario** Latitude: **42.85 deg.** Longitude: **-80.26667 deg.** Start Date: **2002-01-02** End Date: **2002-01-22**



## NAtChem Time Series Plot

21SEP2004

Site ID: **STIFCAONSIM\_** Variable name: **Nitrite** Units: **ug/m3** Sampling interval: **8 h day/16 h night** Sampling frequency: **2 times per day**  
 CAS ID: **C14797-65-0** Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**  
 Field sampling or measurement principle: **Single filter** Medium: **Teflon** Inlet type: **Impactor--virtual/concentrator**  
 Laboratory analytical method: **IC** Sample preparation: **Water extraction** Blank Correction: **Blank corrected**  
 Volume standardization: **25 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**  
 Instrument name and model number: **Rupprecht and Patashnik Partisol-Plus 2025D** Measurement principal investigator: **Jeffrey Brook**  
 Detection Limit: **Varies--see Detection lim**

Site Name: **Simcoe, Ontario** Latitude: **42.85 deg.** Longitude: **-80.26667 deg.** Start Date: **2002-01-02** End Date: **2002-01-22**

**Statistics**

Number of obs: **20**  
 Number of missing: **0**  
 Minimum: **-0.0064**  
 25th Percentile: **-0.0063**  
 Median: **-0.0062**  
 Mean: **-0.005**  
 75th Percentile: **-0.0061**  
 Maximum: **0.0218**  
 Stnd Dev.: **0.006**

**NARSTO Flags****Flag Symbol Count**

V0: ● 1  
 V1: + 19

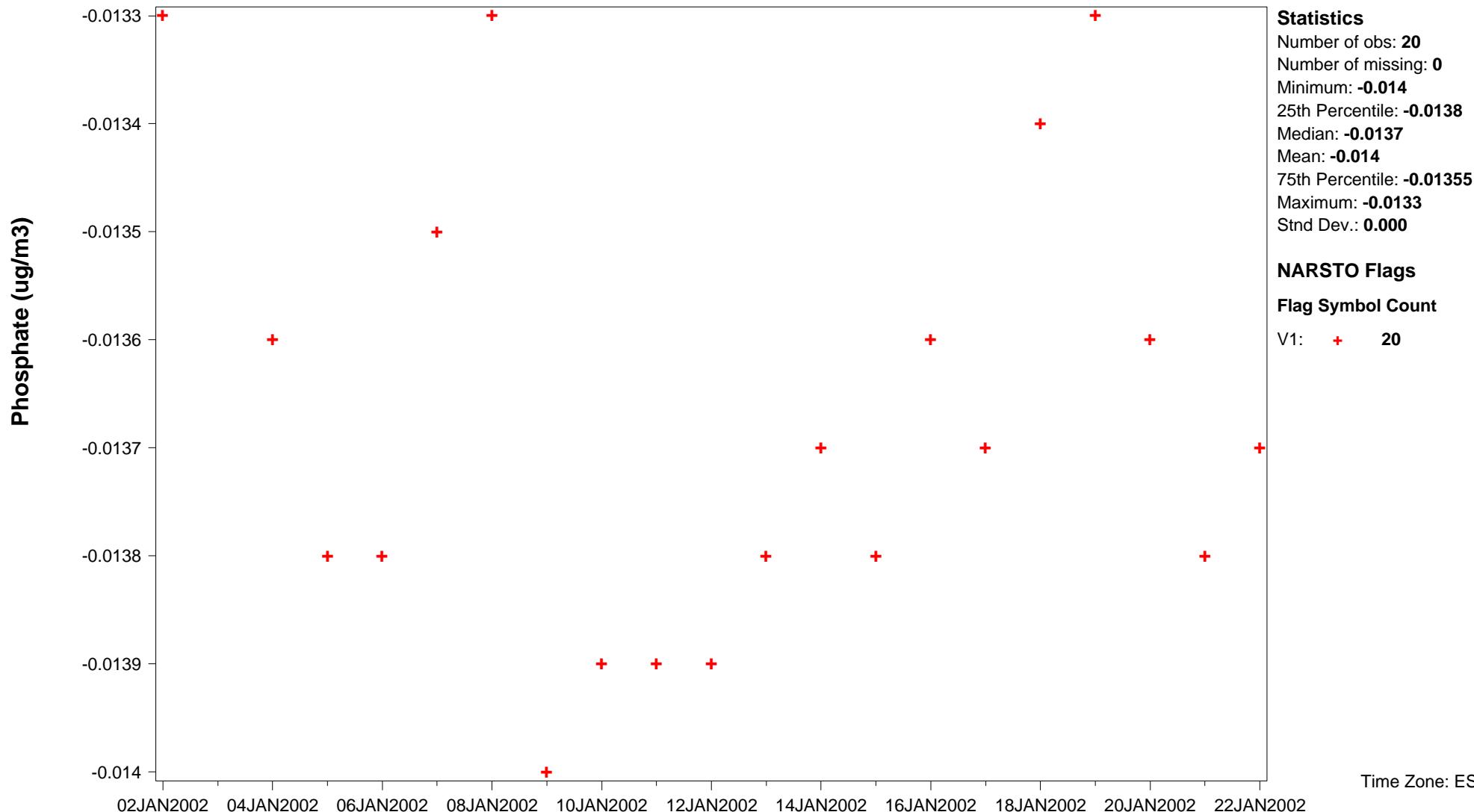


## NAtChem Time Series Plot

21SEP2004

Site ID: **STIFCAONSIM**\_ Variable name: **Phosphate** Common Name: **Phosphate** Units: **ug/m3** Sampling interval: **8 h day/16 h night**  
 Sampling frequency: **2 times per day** CAS ID: **C14265-44-2** Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined**  
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Teflon**  
 Inlet type: **Impactor--virtual/concentrator** Laboratory analytical method: **IC** Sample preparation: **Water extraction**  
 Blank Correction: **Blank corrected** Volume standardization: **25 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**  
 Instrument name and model number: **Rupprecht and Patashnik Partisol-Plus 2025D** Measurement principal investigator: **Jeffrey Brook**  
 Detection Limit: **Varies--see Detection lim**

Site Name: **Simcoe, Ontario** Latitude: **42.85 deg.** Longitude: **-80.26667 deg.** Start Date: **2002-01-02** End Date: **2002-01-22**

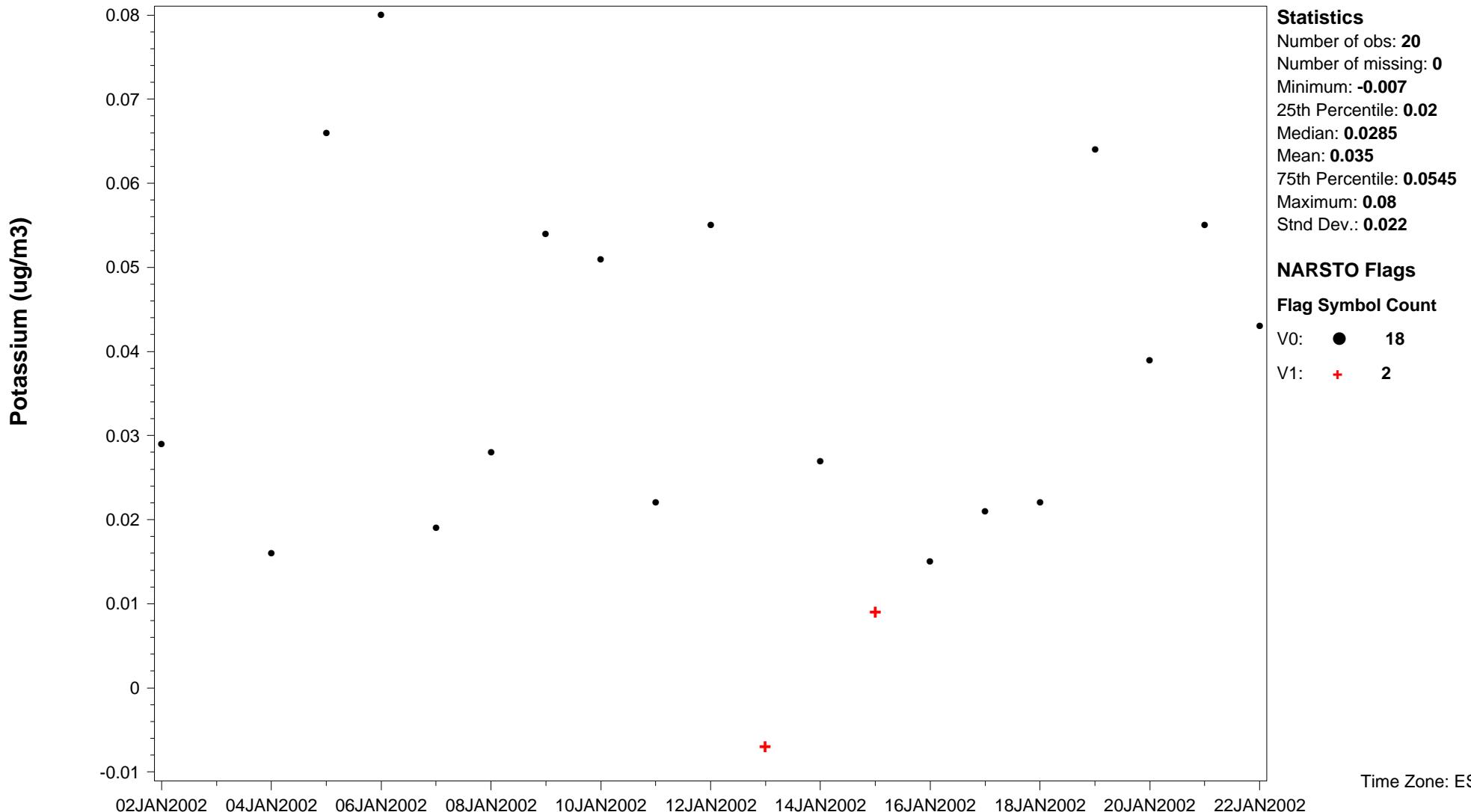


## NAtChem Time Series Plot

21SEP2004

Site ID: **STIFCAONSIM**\_ Variable name: **Potassium** Units: **ug/m3** Sampling interval: **8 h day/16 h night** Sampling frequency: **2 times per day**  
 CAS ID: **C7440-09-7** Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**  
 Field sampling or measurement principle: **Single filter** Medium: **Teflon** Inlet type: **Impactor--virtual/concentrator**  
 Laboratory analytical method: **IC** Sample preparation: **Water extraction** Blank Correction: **Blank corrected**  
 Volume standardization: **25 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**  
 Instrument name and model number: **Rupprecht and Patashnik Partisol-Plus 2025D** Measurement principal investigator: **Jeffrey Brook**  
 Detection Limit: **Varies--see Detection lim**

Site Name:**Simcoe, Ontario** Latitude:**42.85 deg.** Longitude:**-80.26667 deg.** Start Date:**2002-01-02** End Date:**2002-01-22**

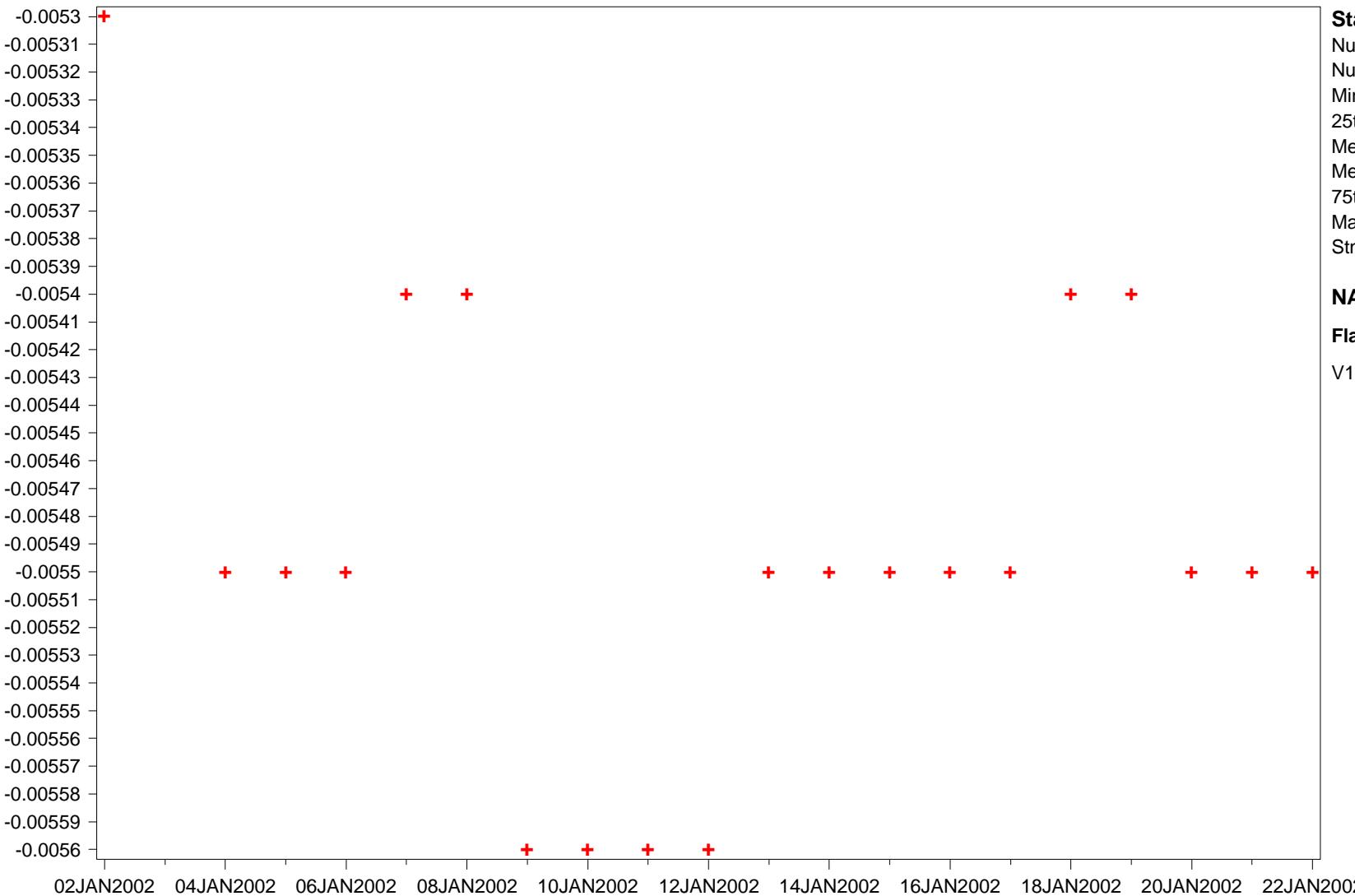


## NAtChem Time Series Plot

21SEP2004

Site ID: **STIFCAONSIM**\_ Variable name: **Propanoic acid, ion(1-)** Common Name: **Propionate** Units: **ug/m<sup>3</sup>** Sampling interval: **8 h day/16 h night**  
 Sampling frequency: **2 times per day** CAS ID: **C72-03-7** Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined**  
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Teflon**  
 Inlet type: **Impactor--virtual/concentrator** Laboratory analytical method: **IC** Sample preparation: **Water extraction**  
 Blank Correction: **Blank corrected** Volume standardization: **25 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**  
 Instrument name and model number: **Rupprecht and Patashnik Partisol-Plus 2025D** Measurement principal investigator: **Jeffrey Brook**  
 Detection Limit: **Varies--see Detection lim**

Site Name: **Simcoe, Ontario** Latitude: **42.85 deg.** Longitude: **-80.26667 deg.** Start Date: **2002-01-02** End Date: **2002-01-22**

Propanoic acid, ion(1-) (ug/m<sup>3</sup>)**Statistics**

Number of obs: **20**  
 Number of missing: **0**  
 Minimum: **-0.0056**  
 25th Percentile: **-0.0055**  
 Median: **-0.0055**  
 Mean: **-0.005**  
 75th Percentile: **-0.00545**  
 Maximum: **-0.0053**  
 Stnd Dev.: **0.000**

**NARSTO Flags****Flag Symbol Count**

V1:    +    20

Time Zone: EST

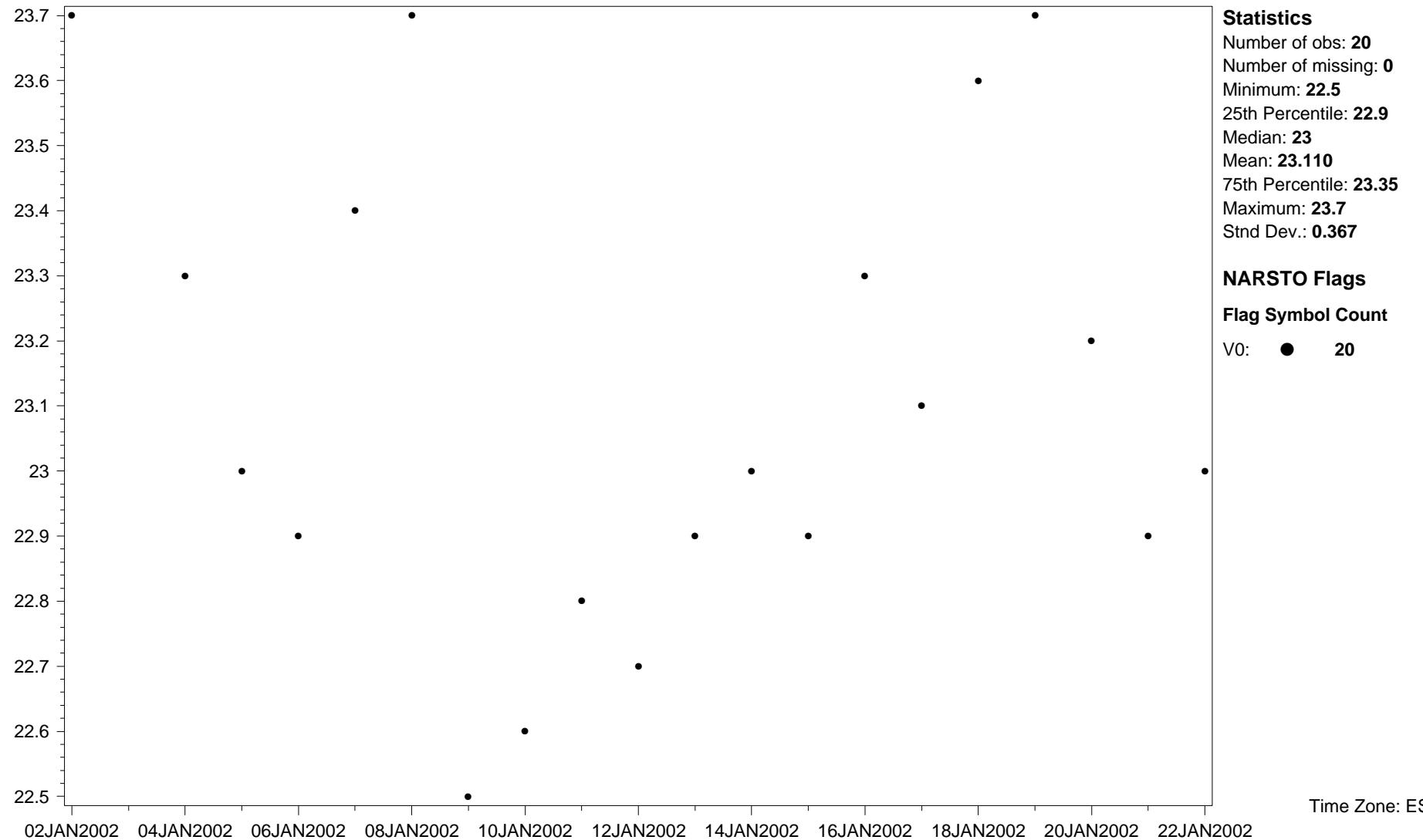


## NAtChem Time Series Plot

21SEP2004

Site ID: **STIFCAONSIM** Variable name: **Sample: total volume** Units: **m3** Sampling interval: **8 h day/16 h night** Sampling frequency: **2 times per day**  
Observation type: **Flow** Field sampling or measurement principle: **Mass flow controller** Inlet type: **Impactor--virtual/concentrator**  
Volume standardization: **25 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**  
Instrument name and model number: **Rupprecht and Patashnik Partisol-Plus 2025D** Measurement principal investigator: **Jeffrey Brook**

Site Name: **Simcoe, Ontario** Latitude: **42.85 deg.** Longitude: **-80.26667 deg.** Start Date: **2002-01-02** End Date: **2002-01-22**

Sample: total volume (m<sup>3</sup>)**Statistics**

Number of obs: **20**  
Number of missing: **0**  
Minimum: **22.5**  
25th Percentile: **22.9**  
Median: **23**  
Mean: **23.110**  
75th Percentile: **23.35**  
Maximum: **23.7**  
Stnd Dev.: **0.367**

**NARSTO Flags**

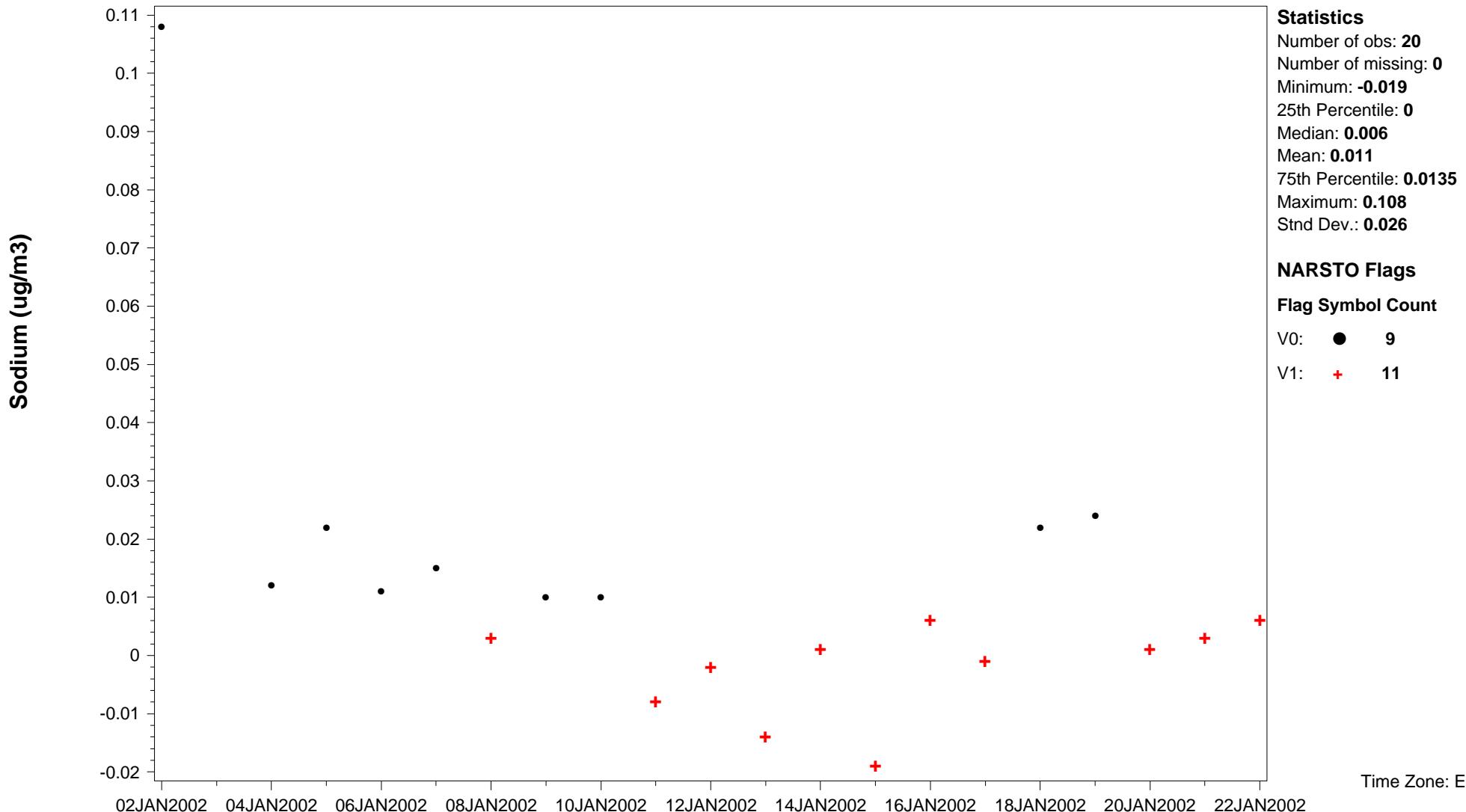
**Flag Symbol Count**  
V0: ● 20

Time Zone: EST



Site ID: **STIFCAONSIM**\_ Variable name: **Sodium** Units: **ug/m3** Sampling interval: **8 h day/16 h night** Sampling frequency: **2 times per day**  
 CAS ID: **C7440-23-5** Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**  
 Field sampling or measurement principle: **Single filter** Medium: **Teflon** Inlet type: **Impactor--virtual/concentrator**  
 Laboratory analytical method: **IC** Sample preparation: **Water extraction** Blank Correction: **Blank corrected**  
 Volume standardization: **25 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**  
 Instrument name and model number: **Rupprecht and Patashnik Partisol-Plus 2025D** Measurement principal investigator: **Jeffrey Brook**  
 Detection Limit: **Varies--see Detection lim**

Site Name:**Simcoe, Ontario** Latitude:**42.85 deg.** Longitude:**-80.26667 deg.** Start Date:**2002-01-02** End Date:**2002-01-22**

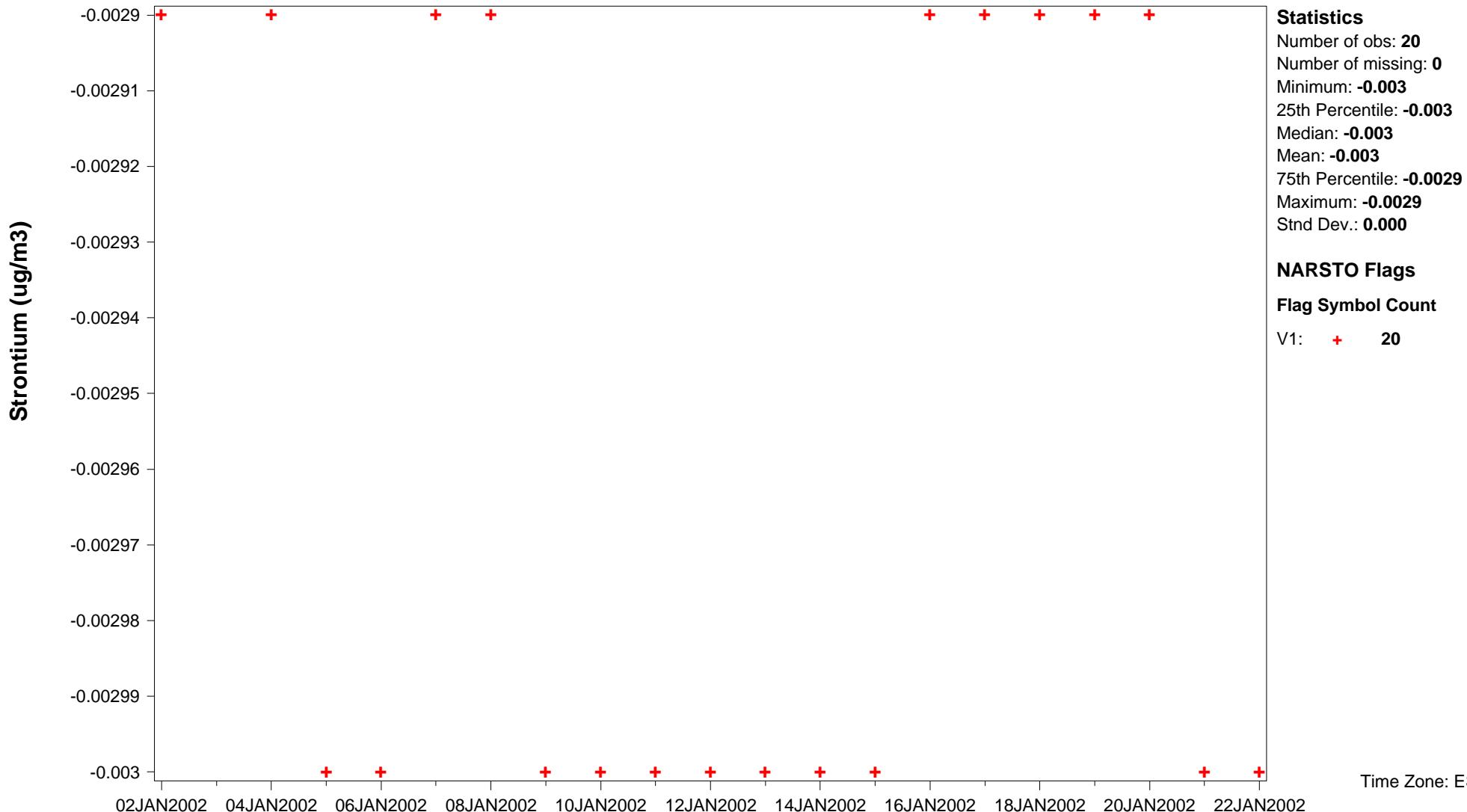


## NAtChem Time Series Plot

21SEP2004

Site ID: **STIFCAONSIM**\_ Variable name: **Strontium** Units: **ug/m3** Sampling interval: **8 h day/16 h night** Sampling frequency: **2 times per day**  
 CAS ID: **C7440-24-6** Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**  
 Field sampling or measurement principle: **Single filter** Medium: **Teflon** Inlet type: **Impactor--virtual/concentrator**  
 Laboratory analytical method: **IC** Sample preparation: **Water extraction** Blank Correction: **Blank corrected**  
 Volume standardization: **25 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**  
 Instrument name and model number: **Rupprecht and Patashnik Partisol-Plus 2025D** Measurement principal investigator: **Jeffrey Brook**  
 Detection Limit: **Varies--see Detection lim**

Site Name:**Simcoe, Ontario** Latitude:**42.85 deg.** Longitude:**-80.26667 deg.** Start Date:**2002-01-02** End Date:**2002-01-22**



## NAtChem Time Series Plot

21SEP2004

Site ID: **STIFCAONSIM\_** Variable name: **Sulfate** Units: **ug/m3** Sampling interval: **8 h day/16 h night** Sampling frequency: **2 times per day**  
 CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **Undetermined** Particle diameter--upper bound (UM): **2.5**  
 Field sampling or measurement principle: **Single filter** Medium: **Teflon** Inlet type: **Impactor--virtual/concentrator**  
 Laboratory analytical method: **IC** Sample preparation: **Water extraction** Blank Correction: **Blank corrected**  
 Volume standardization: **25 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**  
 Instrument name and model number: **Rupprecht and Patashnik Partisol-Plus 2025D** Measurement principal investigator: **Jeffrey Brook**  
 Detection Limit: **Varies--see Detection lim**

Site Name: **Simcoe, Ontario** Latitude: **42.85 deg.** Longitude: **-80.26667 deg.** Start Date: **2002-01-02** End Date: **2002-01-22**

